



**Part Number :** [1719830142](#)

**Product Description :** Nano-Pitch I/O Connector, Vertical, Surface Mount, with Cap, 42 Circuits, Black

**Series Number :** 171983

**Status :** Not Recommended For New Design

**Product Category :** High-Speed I/O Connectors



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## Documents & Resources

### Drawings

[1719830142\\_sd.pdf](#)

[PK-171982-9000-001.pdf](#)

[PK-171983-9000-001.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

[Symbol and Footprint \(Multi-Format\)](#)

[SYM-171983-0142-001.zip](#)

[EE-171983-0005-002.pdf](#)

[SP-171983-0005-001.zip](#)

### Specifications

[AS-173162-0001-001.pdf](#)

[AS-173162-0002-001.pdf](#)

[PS-173162-0001-001.pdf](#)

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## Product Environment Compliance

### Compliance

|                    |                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Not Relevant                                                                                                 |
| China RoHS         | <br>per SJ/T 11365-2006 |
| EU ELV             | Not Relevant                                                                                                 |
| Low-Halogen Status | Low-Halogen per IEC 61249-2-21                                                                               |

|            |                                                    |
|------------|----------------------------------------------------|
| REACH SVHC | Not Contained per D(2025)4165-DC<br>(25 June 2025) |
| EU RoHS    | Compliant per EU 2015/863                          |

Compliance Statements

- EU RoHS
- REACH SVHC
- Low-Halogen

Industry Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

Substances of Interest

- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

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**Part Details**

**General**

|                |                                                                                 |
|----------------|---------------------------------------------------------------------------------|
| Status         | Not Recommended For New Design                                                  |
| Category       | High-Speed I/O Connectors                                                       |
| Series         | 171983                                                                          |
| Description    | Nano-Pitch I/O Connector, Vertical, Surface Mount, with Cap, 42 Circuits, Black |
| Application    | Wire-to-Board                                                                   |
| Component Type | Receptacle                                                                      |
| Product Name   | Nano-Pitch I/O                                                                  |
| Type           | Internal                                                                        |
| UPC            | 889056189347                                                                    |

**Agency**

|    |        |
|----|--------|
| UL | E29179 |
|----|--------|

**Electrical**

|                               |                 |
|-------------------------------|-----------------|
| Current - Maximum per Contact | 0.5A            |
| Data Rate                     | 16.0 Gbps       |
| Grounding to Panel            | None            |
| Shielded                      | No              |
| Voltage - Maximum             | 30V AC (RMS)/DC |

## Physical

|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 42                             |
| Circuits (maximum)             | 42                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 250                            |
| Gender                         | Receptacle                     |
| Lock to Mating Part            | Yes                            |
| Material - Metal               | Copper Alloy                   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 0.942/g                        |
| Number of Rows                 | 2                              |
| Orientation                    | Vertical                       |
| Packaging Type                 | Embossed Tape on Reel          |
| Panel Mount                    | No                             |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness - Recommended    | 1.57mm                         |
| Pitch - Mating Interface       | 0.50mm                         |
| Pitch - Termination Interface  | 0.50mm                         |
| Plating min - Mating           | 0.762µm                        |
| Plating min - Termination      | 2.540µm                        |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |
| Ports                          | 1                              |
| Temperature Range - Operating  | -40° to +80°C                  |
| Termination Interface Style    | Surface Mount                  |

**Solder Process Data**

|                              |     |
|------------------------------|-----|
| Lead-Free Process Capability | N/A |
|------------------------------|-----|